E3JM/E3JK

CSM_E3JM_E3JK_DS_E_4_1

Red light Infrared light

Two Models Contribute to Overall Cost Reduction

E3JM Terminal Block Models

• Easy to wire and adjust.

E3JK Pre-wired Models

 Slim body is economically priced and full of functions.



Be sure to read *Safety Precautions* on page 10.

Ordering Information

Sensors (Refer to Dimensions on page 12.)

E3JM



_00III							- Rea light	infrared light
Sensing method	Appearance	Connection method	Sensing di	stance	Operation mode	Output configuration	Functions	Model
Through-						Relay		E3JM-10M4
beam						Tielay	Timer	E3JM-10M4T
(Emitter +				10 m		DC SSR		E3JM-10S4
Receiver) *	eiver) *						Timer	E3JM-10S4T
Retro-	Retro- reflective Termin				Light-ON	Relay		E3JM-R4M4
		Terminal			Dark-ON (switch select- able)		Timer	E3JM-R4M4T
with MSR		block	4 m	(3		DC SSR		E3JM-R4S4
function	E39-R1 (provided)						Timer	E3JM-R4S4T
						Dalas		E3JM-DS70M4
Diffuse- reflective			700			Relay	Timer	E3JM-DS70M4T
		700 mm			DO 00D		E3JM-DS70S4	
					DC SSR	Timer	E3JM-DS70S4T	

^{*}The model number of the Emitter is E3JM-10L for all models. In order from the top the model numbers of the Receivers are E3JM-10DM4, E3JM-10DM4T, E3JM-10DS4, and E3JM-10DS4T. Orders for individual Emitters and Receivers are accepted.

E3JK

Sensing method	Appearance	Connection method	Sensing	Sensing distance		Operation mode		Output configuration	Model	
Through-						Light-ON		Relay	E3JK-5M1 2M	
beam						Dark-ON		riciay	E3JK-5M2 2M	
(Emitter + Receiver) *1			5 m	l	Light-ON Dark-ON	Both selectable	DC SSR	E3JK-5S3 2M		
Datus valles				*2		Light-ON		Relay	E3JK-R2M1 2M	
Retro-reflec- tive with MSR				2.5 m		Dark-ON		nelay	E3JK-R2M2 2M	
function			(3 m)		Light-ON Dark-ON	Both selectable	DC SSR	E3JK-R2S3 2M		
Datus wells	E39-R1	(2 m)	(2 m)		*2		Light-ON		Relay	E3JK-R4M1 2M
Retro-reflec- tive without	(provided)			4 m	1	Dark-ON		nelay	E3JK-R4M2 2M	
MSR function	,			(5 m)	Light-ON Dark-ON	Both selectable	DC SSR	E3JK-R4S3 2M	
						Light-ON		Relay	E3JK-DS30M1 2M	
Diffuse- reflective			∏300 mm			Dark-ON		neiay	E3JK-DS30M2 2M	
			[] 300 IIIII			Light-ON Dark-ON	Both selectable	DC SSR	E3JK-DS30S3 2M	

Note: UL-listed models have the -US suffix. (Example: E3JM-10M4-US 2M). Tightening nuts, washers, and rubber bushings are not provided with these models. Change: Shape of the E3JM conduit socket

Note, however, that DC-type E3JK SSR Output Models are not UL-listed.

OMRON 1

^{*1.} The model number of the Emitter is E3JK-5L 2M for all models. In order from the top of the model number of the Receivers are E3JK-5DM1 2M, E3JK-5DM2 2M, and E3JK-5DS3 2M. Orders for individual Emitters and Receivers are accepted.

^{*2.} Values in parentheses indicate the sensing distance when using E39-R2 Reflectors.

Accessories (Order Separately)

Slit (Refer to Dimensions on page 12.)

Slit width	Sensing distance		Minimum detect- able object (typical)	Model	Quantity	Remarks
1 mm > 20 mm	E3JM-10□4(T)	1.2 m	1-mm dia.	E39-S39	1 Slit each for the Emitter and	(Seal-type long slit) Can be used with the E3JM-10□4(T)
1 mm × 20 mm	E3JK-5□□	0.7 m	r-mm dia.	E39-S39	Receiver (2 Slits total)	and E3JK-5□□ Through-beam Models.

Reflectors (Refer to Dimensions on E39-L/F39-L/E39-S/E39-R.)

Name	Sensing di	stance (typical)	Model	Quantity	Remarks	
	E3JM-R4□4(T)	4 m (rated value)	4 m (rated value)		Provided with the E3JM-R4□4(T)	
	E3JK-R2□□	2.5 m (rated value)	E39-R1	1	Provided with the E3JK-R2□□ ´	
Reflectors	E3JK-R4□□	4 m (rated value)			Provided with the E3JK-R4□□	
	E3JK-R2□□	3 m	E39-R2	1		
	E3JK-R4□□	5 m				
Small Reflectors	E3JM-R4□4(T)	3.5 m	E39-R3	1		
Siliali Hellectors	E3JK-R2□□	1 m (5 mm) *	_ E39-N3			
	E3JM-R4□4(T)	1 m (200 mm) *	F00 B01	1	Enables MSR function.	
	E3JK-R2□□	750 mm (200 mm) *	E39-RS1	ı		
Tana Baflactora	E3JM-R4□4(T)	1.6 m (200 mm) *	E39-RS2	1		
Tape Reflectors	E3JK-R2□□	1.2 m (200 mm) *	- E39-N32	'	Enables Mon function.	
	E3JM-R4□4(T)	2 m (200 mm) *	E39-RS3	-1		
	E3JK-R2□□	1.5 m (200 mm) *	- E39-N33	l		

Note: 1. When using any reflector other than the provided one, use a sensing distance of approximately 0.7 times the typical value as a guide. 2. Refer to Reflectors on E39-L/F39-L/E39-S/E39-R for details.

Mounting Bracket (Refer to E39-L/F39-L/E39-S/E39-R)

Appearance	Model	Quantity	Remarks
	E39-L53	1	Provided with the E3JM.
	E39-L40	1	Provided with the E3JK.
	E39-L51	1	Mounting Bracket designed for changing from he E3A-M, E3A2, E3A3, OA-5, or OA-5N to the E3JM.

Note: 1. If a Through-beam Model is used, order two Mounting Brackets, one for the Emitter and one for the Receiver.

^{*} Values in parentheses are the minimum required distance between the Sensor and Reflector.

^{2.} Refer to Mounting Brackets on E39-L/F39-L/E39-S/E39-R for details.

Ratings and Specifications

E3JM

	Sensing method	Through-beam model	Retro-reflective model (with MSR function)	Diffuse-reflective model		
ltem	Model	E3JM-10□4(T)	E3JM-R4□4(T)	E3JM-DS70□4(T)		
Sensing distance		10 m 4 m (When using E39-R1)		White paper (200 × 200 mm): 700 mm		
Standard sensir	ıg object	Opaque: 14.8-mm dia. min.	Opaque: 75-mm dia. min.			
Differential trave	el			20% max. of sensing distance		
Directional angl	e	Both Emitter and Receiver 3° to 20°	1° to 5°			
_ight source (wa	avelength)	Infrared LED (950 nm)	Red LED (660 nm)	Infrared LED (950 nm)		
Power supply vo	oltage	12 to 240 VDC±10%, ripple (p-p): 1 24 to 240 VAC±10%, 50/60 Hz	0% max.			
Power con-	DC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	2 W max.			
sumption	AC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	2 W max.			
Control output		Relay output (E3JM-□□M4 (T) mod DC SSR output (E3JM-□□S4 (T) m Light-ON/Dark-ON selectable				
Life	Mechanical	50,000,000 times min. (switching from	equency: 18,000 times/h)			
expectancy relay output)	Electrical	100,000 times min. (switching frequency: 1,800 times/h)				
	Relay output	(E3JM-□□M4 (T) models) Operate or reset: 30 ms max.				
Response time	DC SSR output	(E3JM-□□S4 (T) models) Operate or reset: 5 ms max.				
Sensitivity adjus	stment	One-turn adjuster				
Fimer function *		ON-delay/OFF-delay/One-shot delay switch selectable Delay time: 0.1 to 5 s (adjustable), only for E3JM-□□□4T				
Ambient illumin (Receiver side)	ation	Incandescent lamp: 3,000 lx max.				
Ambient temper	ature range	Operating: -25°C to 55°C, Storage: -30°C to 70°C (with no icing or condensation)				
Ambient humidi	ty range	Operating: 45% to 85% (with no condensation), Storage: 35% to 95% (with no condensation)				
nsulation resist	ance	20 MΩ min. at 500 VDC				
Dielectric streng	jth	2,000 VAC, 50/60 Hz for 1 min.				
/ibration	Destruction	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions				
esistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions				
Shock	Destruction	500 m/s ² 3 times each in X, Y, and Z directions				
esistance	Malfunction	100 m/s ² 3 times each in X, Y, and Z directions				
Degree of protect	ction	IEC 60529: IP66				
Connection met	hod	Terminal block				
Weight (packed	state)	Approx. 270 g	Approx. 160 g			
	Case	ABS (Acrylonitril Butadiene Styrene)				
	Lens	Methacrylic resin				
Material Cover		Polycarbonate				
	Mounting Bracket	Iron				
Accessories		Mounting Bracket (with screw), Nut ing -US Models), Instruction manua				

^{*} The timer cannot be disabled for models with timer functions (E3JM-\(\sigma \sqrt{4}\).

OMRON 3

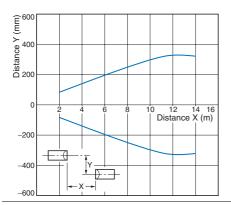
E3JK

Sensing method		Through-beam model		Retro-reflective model (with MSR function)			ctive model SR function)	Diffuse-reflective model		
Item	Model	E3JK -5M□	E3JK -5S3	E3JK -R2M□	E3JK -R2S3	E3JK -R4M□	E3JK -R4S3	E3JK -DS30M□	E3JK -DS30S3	
Sensing o	distance	5 m	I	2.5 m (When u	sing E39-R1)	4 m (When usi	ng E39-R1)	White paper (1 300 mm	00 × 100 mm):	
Standard sensing Opaque: 14.8-mm dia		mm dia. min.	Opaque: 75-mi	m dia. min.						
Differenti	al travel			-	- -			20% max. of se	ensing distance	
Direction	al angle	Both Emitter an 20°	d Receiver 3° to	1° to 5°				-		
Light sou (wavelenç		Infrared LED (9	50 nm)	Red LED (660	nm)			Infrared LED (9	950 nm)	
Power su voltage	pply		±10%, ripple (p-p ±10%, 50/60 Hz): 10% max.						
Power con-	DC	3 W max. (Em max. Receiver		2 W max.						
sump- tion	AC	3 W max. (Em max. Received		2 W max.						
Control o	utput	Relay output SPDT, 250 VAC, 3 A max. (cosop= 1) 5 VDC, 10 mA min.	DC SSR output, Negative: common 48 VDC, 100 mA max. Leakage current: 0.1 mA max. With load short-circuit protection	Relay output SPDT, 250 VAC, 3 A max. (cosφ= 1) 5 VDC, 10 mA min.	DC SSR out- put, Negative: common 48 VDC, 100 mA max. Leakage cur- rent: 0.1 mA max. With load short-circuit protection	Relay output SPDT, 250 VAC, 3 A max. (cosφ= 1) 5 VDC, 10 mA min.	DC SSR output, Negative: common 48 VDC, 100 mA max. Leakage current: 0.1 mA max. With load short-circuit protection	Relay output SPDT, 250 VAC, 3 A max. (cosφ= 1) 5 VDC, 10 mA min.	DC SSR out- put, Negative: common 48 VDC, 100 mA max. Leakage cur- rent: 0.1 mA max. With load short-circuit protection	
Life ex- pectan-	Mechani- cal	50,000,000 tim	es min. (switchin	g frequency: 18,	000 times/h)					
cy (relay output)	Electrical	100,000 times	min. (switching fi	requency: 1,800	times/h)					
Response	e time	30 ms max.	10 ms max.	30 ms max.	5 ms max.	30 ms max.	5 ms max.	30 ms max.	5 ms max.	
Sensitivit adjustme								One-turn adjuster		
Ambient i tion (Receiver		Incandescent la	amp: 3,000 lx ma	ıx.						
Ambient temperatu	ure range	Operating: -25	°C to 55°C, Stora	age: –30°C to 70	°C (with no icing	or condensation	۱)			
Ambient humidity	range	Operating: 45%	to 85% (with no	condensation),	Storage: 35% to	95% (with no co	ondensation)			
Insulation resistance		20 $\mbox{M}\Omega$ min. at	500 VDC							
Dielectric	strength	1,500 VAC, 50/	60 Hz for 1 min.							
Vibra- tion re-	Destruc- tion	10 to 55 Hz, 1.9	5-mm double am	plitude for 2 hou	rs each in X, Y,	and Z directions				
sistance	Malfunc- tion	10 to 55 Hz, 1.	5-mm double am	plitude for 2 hou	rs each in X, Y,	and Z directions				
Shock	Destruc- tion	500 m/s ² 3 time	es each in X, Y, a	and Z directions						
resis- tance	Malfunc- tion	100 m/s² 3 times each in X, Y, and Z di- rections	500 m/s ² 3 times each in X, Y, and Z di- rections	100 m/s ² 3 times each in X, Y, and Z di- rections	500 m/s ² 3 times each in X, Y, and Z di- rections	100 m/s ² 3 times each in X, Y, and Z di- rections	500 m/s ² 3 times each in X, Y, and Z di- rections	100 m/s ² 3 times each in X, Y, and Z di- rections	500 m/s ² 3 times each in X, Y, and Z di- rections	
Degree of protection		IEC 60529 IP64	1							
Connection method Pre-wired (standard length: 2 m										
Weight (packed state) Approx. 420 g Approx. 250 g										
	Case	ABS (Acrylonitril Butadiene Styrene)								
Material Lens Methacrylic resin										
	Mounting Bracket Iron									
Accessor	ies	Mounting Brack	cet (with screws)	, Nuts, Instructio	n manual, Reflec	ctor (Retro-reflec	tive Models only	<i>'</i>)		

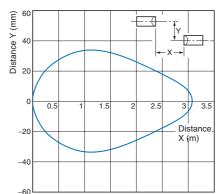
Engineering Data (Typical)

Parallel Operating Range

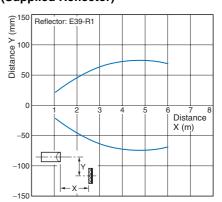
Through-beam E3JM-10□4(T)



Through-beam E3JM-10□4(T) + E39-S39 (Optional Slit)



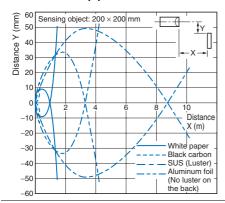
Retro-reflective E3JM-R4□4(T) + E39-R1 (Supplied Reflector)



Operating Range

Diffuse-reflective

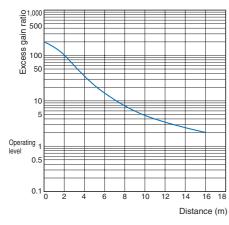
E3JM-DS70□4(T)



Excess Gain Ratio vs. Set Distance

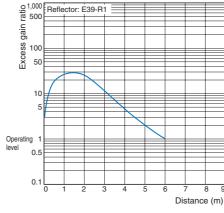
Through-beam

E3JM-10□4(T)

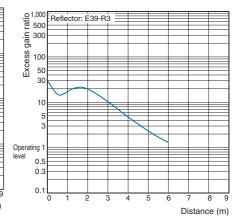


Retro-reflective

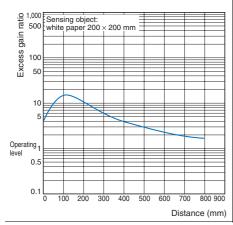
E3JM-R4□4(T) + E39-R1 (Supplied Reflector)



E3JM-R4□4(T) + E39-R3 (Optional Reflector)

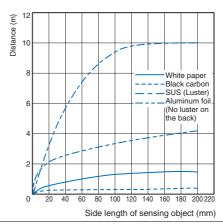


Diffuse-reflective E3JM-DS70□4(T)



Sensing Object Size vs. Sensing Distance

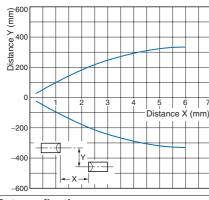
E3JM-DS70□4(T)



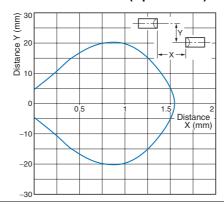
Parallel Operating Range

Through-beam



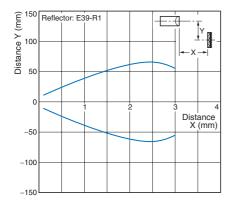


E3JK-5□□ + E39-S39 (Optional Slit)

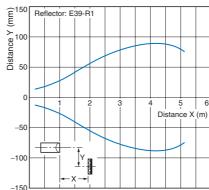


Retro-reflective

E3JK-R2□□ + E39-R1 (Supplied Reflector)



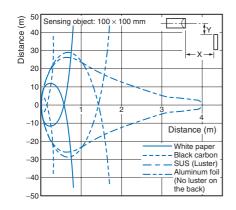
E3JK-R4□□ + E39-R1 (Supplied Reflector)



Operating Range

Diffuse-reflective

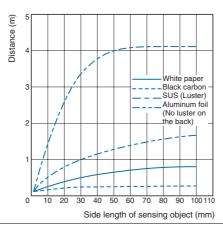
E3JK-DS30□□



Sensing Object Size vs. Sensing Distance

Diffuse-reflective

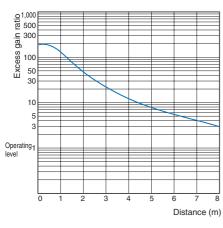
E3JK-DS30□□



Excess Gain Ratio vs. Set Distance

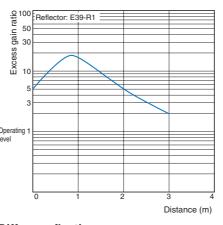
Through-beam

E3JK-5□□



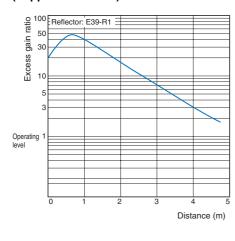
Retro-reflective

E3JK-R2□□ + E39-R1 (Supplied Reflector)

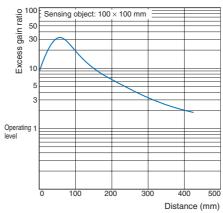


Diffuse-reflective

E3JK-R4□□ + E39-R1 (Supplied Reflector)



E3JK-DS30□□



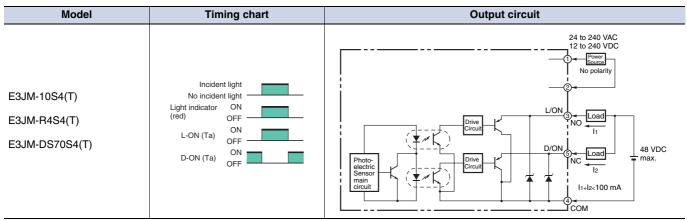
I/O Circuit Diagrams

E3JM

Relay Output Models

Model	Timing chart	Output circuit
E3JM-10M4(T) E3JM-R4M4(T) E3JM-DS70M4(T)	Incident light No incident light Light indicator (red) L-ON (Ta) D-ON (Ta) Incident light ON OFF ON OFF	Photoelectric Sensor main circuit 3 Tb 4 to 240 VDC Power Sensor main circuit 3 Tb 4 Tc Contact output (Built-in Relay: G6C)

DC SSR Output Models



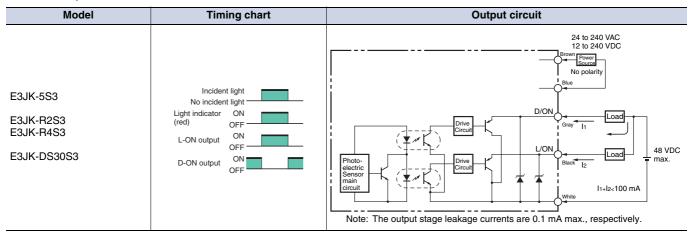
Note: Connect terminal 1 to any polarity and terminal 2 to the power supply because there is no polarity on the Emitter side.

E3JK

Relay Output Models

Model	Timing chart	Output circuit
E3JK-5M1 E3JK-5M2	Incident light	24 to 240 VAC 12 to 240 VDC Brown Power
E3JK-R2M1 E3JK-R2M2 E3JK-R4M1 E3JK-R4M2	No incident light Light indicator ON (red) OFF L-ON (Ta) ON (E3JK-□M1) OFF	Sensor main circuit Blue No polarity Tc White Black Contact output
E3JK-DS30M1 E3JK-DS30M2	D-ON (Ta) ON (E3JK-□□M2) OFF	Gray Gray (Built-in Relay: G6C)

DC SSR Output Models



Note: Connect the brown cable to any polarity and the blue cable to the power supply because there is no polarity on the Emitter side.

Safety Precautions

Refer to Warranty and Limitations of Liability.



This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



Precautions for Correct Use

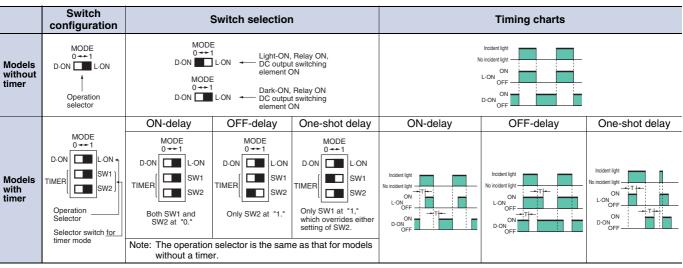
Do not use the product in atmospheres or environments that exceed product ratings.

E3JM

Designing

Operation

Note: The white part of the DIP switch indicates which setting is selected.



Output Relay Contact

If E3JM/E3JK is connected to a load with contacts that spark when the load is turned OFF (e.g., a contactor or valve), the normally-closed side may be turned ON before the normally-open side is turned OFF or vice-versa. If both normally-open output and normally-closed output are used simultaneously, apply an surge suppressor to the load.

Refer to OMRON's PCB Relays Catalog (X33) for typical examples of surge suppressors.

Wiring

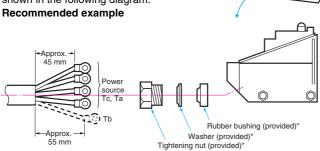
Connecting and Wiring

- Recommended outer diameter of cables is from 6 to 8 mm.
- Be sure to firmly tighten the cover in order to maintain waterproof and dustproof properties. The screw size of the conduit sockets is shown in the following table.

Model	Conduit socket thread size
E3JM-□	PF1/2

Cable End Treatment

Adjust the four wires to the same length when the Ta output is to be used only. If both the Ta and Tb outputs are to be used, treat them as shown in the following diagram.



* These parts are not provided with models with a -US suffix.

Recommended Crimp Terminal Dimensions (Unit: mm)

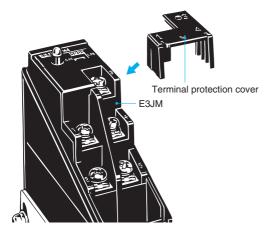
Round type	Fork type
7 max 7 max 7 max 3.6 dia. min 19 max 19	7 max. 3.6 dia. min. 19 max.
(After crimping)	(After crimping)

Note: Use terminals with insulation tube (recommended crimp terminal: 1.25 to 3.5).

Others

Terminal Protection Cover (Provided)

The terminal protection cover is designed to improve safety by maintaining the sensitivity properties of the product and by preventing any contact with charged sections while it is being operated with the mode set to the timer mode. Mount the product as shown in the following diagram (mount the Through-beam Model on the Receiver side).



E3JK

Designing

Power Reset Time

The Sensor is ready to detect within 200 ms after it is turned ON. If the Sensor and load are connected to separate power supplies, be sure to turn ON the Sensor first.

Items Common to E3JM and E3JK

Wiring

Connecting and Wiring DC SSR Output Models

When using the DC SSR output model, the total of the load current for the Light-ON output (NO) and that for the Dark-ON (NC) should be 100 mA max. If the total exceeds 100 mA, the load short-circuit protection function will be activated (this function will be reset when the power of the Photoelectric Sensor is turned OFF).

Others

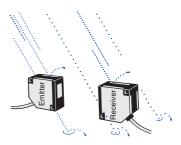
Ambient Conditions (Installation Area)

The E3JM will malfunction if installed in the following places.

- Places where the E3JM is exposed to a dusty environment.
- Places where corrosive gases are produced.

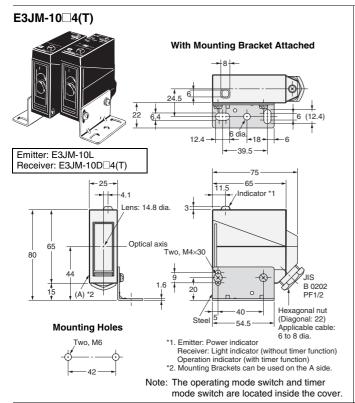


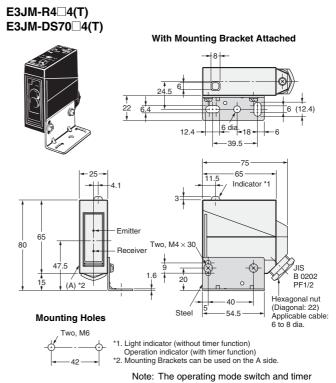
 Places where the E3JM is directly exposed to water, oil, or chemicals.



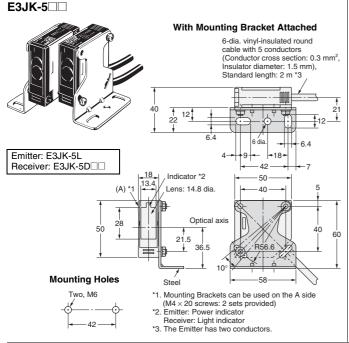
Dimensions

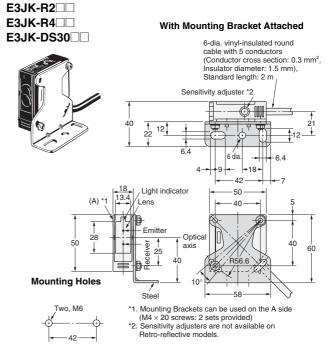
Sensors



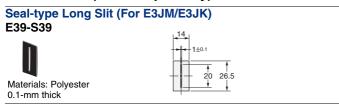


mode switch are located inside the cover.





Accessories (Order separately)



Mounting Brackets

Refer to E39-L/F39-L/E39-S/E39-R for details.

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Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

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WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

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Product specifications and accessories may be changed at any time based on improvements and other reasons.

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DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

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2008.11

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